

## Education

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- **Nanyang Technological University**, Singapore (Aug 2010 – Jun 2014)
  - Bachelor of Engineering (Honours) in Computer Science with a GPA of **4.78/5**.
  - Minor in Business, Specialization in Intelligent Systems.
  - Dean's List - Academic Year 2012-13, Academic Year 2013-14
  - Awarded President's Research Scholarship - offered to the top 5% of the cohort - Academic Year 2011-12
  - Awarded full scholarship for university education.
- High School: St. James' School, Kolkata (Graduated in May 2010)

## Employment History

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- **Zendesk, Inc.** - *Software Engineer, Zopim Live Chat (Backend/Platform)*, Singapore (Jul 2014 - Present)
  - *Public Rest API* - Worked on v1.0 of the public API. This involved opening up a subset of the internal API for public consumption. Developed a view transformation layer to transform internal objects before returning publicly, a internal structure for authorization checks, and adding adding/modifying various endpoints as required.
  - *Webhooks* - Worked on v1 of the Webhooks. Developed the delivery/retry mechanism for payload delivery.
  - *Entitlement Microservice* - Built a microservice for feature entitlement and gating.
  - Developed a object oriented data-access (ORM-ish) layer with *Redis Cluster* as a backing store.
  - Technologies Used* - Python, Django, Flask, Celery, Nose, Javascript, Node, Redis, Redis Cluster, MySQL, Docker, etc.
- **IBM Corporation** - *Software Engineering (iOS) Intern*, Singapore (May 2013 - Aug 2013)
  - Developed core components for a mobile port of IBM Security Access Manager for Enterprise Single Sign-On ISAM-ESSOm for providing single sign-on capabilities on the iOS platform.
  - Built the fully-featured, UIWebView-based embedded browser which provides Web single sign-on capabilities.
- **IBM Corporation** - *Software Engineering Intern*, Singapore (Jun 2012 - Dec 2012)
  - Development – Prototyped new mobile (iOS and Android) solutions aimed at enhancing user experience and security of sensitive user information. Explored and implemented methods of automated form - filling techniques.
  - QA – Configuration and troubleshooting server side components of a new solution for Privileged Identity Management. Automated the user-creation process during load-testing, reducing time required by 66%.

## Projects

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- **TwitterCLDR** (Open-Source) (CoffeeScript, JavaScript, Ruby) (Jun 2014 - Present)
  - Regular contributor to Twitter's open source project for data localization. Implemented features such as Text Segmentation, Unicode Regex Parser, etc.
- **Virtual Interaction with Physical Objects Using Kinect and iPhone** - *Final Year Project* (Aug 2013 - Apr 2014)
  - Developed a proof-of-concept game demonstrating interaction with real world objects virtually.
  - Interfacing a Kinect, an iPhone, and a projector with a central server to process motion.
- **Twitter Visualizer** - *Data Mining* - (Python/Django) (Aug 2013 - Oct 2013)
  - Led a team of 6 to develop an app to generate a timeline for the worldwide flow of hashtags and track local trends.
- **Twitter Summarizer** - *Natural Language Processing* - (Java/Python) (Aug 2013 - Oct 2013)
  - Developed an application to summarize and analyse the sentiment of Twitter users about subjects after extracting descriptive phrases from tweets.
- **dBauggle** - *Software Engineering* - (iOS) (Jan 2013 - May 2013)
  - Led a team of 6 to build dBauggle, an iOS word-game for children with special needs, built with cocos2d.
- Pet Projects
  - **Pebble Music Tweeter** - Pebble Watchapp + companion iOS app using the Twitter API and Pebble SDK to Tweet the currently playing music from the smartwatch.
  - **Heal The World** - A game to educate people about world issues and a platform to connect them with agencies if they want to volunteer. Built using Meteor.js.

## Technical Skills

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- Languages: Python, Javascript, CoffeeScript, Java, Objective-C, Ruby (basic) and others.
- Technologies (miscellaneous): Django, Flask, Celery, Nose, Node, Jasmine, Redis, Redis Cluster, MySQL, etc.
- Represented NTU in International Collegiate Programming Competition (ACM-ICPC) Regionals, Kuala Lumpur (2011).

## Extra-Curricular Activities

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- **President - NTU Open Source Society** - Headed the management committee of the special interest club that promotes the hacker culture. (AY2012-13)
- **IT & Media Officer** - Computer Engineering Club (**Student Council** equivalent) - Steered the annual branding initiative, produced and redesigned the School's publication and organised the school's first Hackathon. (AY2012-13)

## Interests

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- Reading, Writing, Sports (football, rugby).
- Played Rugby competitively for 8 years.
- Member of the NTU Rugby Squad between Sept 2010 and Aug 2011.